

# **NOTICE**

**All drawings located at the end of the document.**

AE

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**Final Industrial Area  
Sampling and Analysis Plan  
FY03 Addendum #IA-03-05  
IHSS Group 500-4**



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IHSS Group 500-4**

Approval received from the Colorado Department of Public Health and Environment.

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Approval letter contained in the Administrative Record.

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## ACRONYMS

AL	action level
DOE	U.S. Department of Energy
FY	Fiscal Year
HPGe	high-purity germanium
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
MDL	method detection limit
mg/kg	milligrams per kilogram
N/A	not applicable
NFA	no further action
PAC	Potential Area of Concern
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
PCOC	potential contaminant of concern
RCRA	Resource Conservation and Recovery Act
SAP	Sampling and Analysis Plan
UBC	Under Building Contamination
VOC	volatile organic compound
WRW	wildlife refuge worker

## **1.0 INTRODUCTION**

This Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001) Addendum #IA-03-05 includes Individual Hazardous Substance Site (IHSS) Group-specific information, sampling locations, and potential contaminants of concern (PCOCs) for an IHSS proposed for characterization during Fiscal Year (FY)03. This IASAP Addendum is a supplement to the IASAP (DOE 2001) and includes data and proposed sampling locations for IHSS Group 500-4. IHSS Group 500-4 consists of one IHSS: 500-117.2 - Middle Site Chemical Storage. The location of the IHSS Group proposed for characterization is shown on Figure 1.

### **1.1 EXISTING CHARACTERIZATION INFORMATION**

Existing concentrations and activities above background means plus two standard deviations or method detection limits (MDLs), are presented on Figure 2. Existing information and data for this IHSS are available in Appendix C of the IASAP (DOE 2001), the Historical Release Reports (HRRs) (DOE 1992-2002), and the IA Data Summary Report (DOE 2000). PCOCs for this IHSS include radionuclides, metals, and volatile organic compounds (VOCs) in both surface and subsurface soil.

### **1.2 SAMPLING**

The proposed sampling specifications (number and types of samples) for IHSS Group 500-4 are listed in Table 1 and shown on Figure 3. Proposed new sampling locations are the starting point for IHSS Group characterization. After characterization starts, the number and type of samples may change based on sampling results. Changes to sampling specifications will be considered in consultation with the regulatory agencies.

Three types of sampling strategies are used to determine sampling locations: statistical, geostatistical, and biased. Statistical grids have computer-generated random start points and orientations. Additionally, the grids have been extended outside the IHSS to provide additional sampling locations if needed. Biased samples are based on existing data and supplement the statistical grid locations. This IASAP Addendum for IHSS Group 500-4 utilizes a combination of both statistical and biased sampling strategies. The statistical grid accounts for the majority of samples being collected; however, multiple biased samples have been proposed for the western-side of the IHSS to ensure that adequate sample coverage is achieved where the grid arbitrarily left "open" areas.

## **2.0 IHSS GROUP 500-4**

### **2.1 EXISTING CHARACTERIZATION INFORMATION**

Existing concentrations and activities above the background means plus two standard deviations or MDLs are presented on Figure 2. All relevant existing surface and subsurface data results greater than background means plus two standard deviations or MDLs,

excluding one sampling point, contained radionuclides and metals. VOCs were found in the one sampling point exception located outside of the northeastern corner of the IHSS.

This VOC-containing sample point was the only subsurface sample above MDLs; no subsurface sample exceeded a constituent background mean plus two standard deviations. Based upon this knowledge, the northeastern corner of the IHSS will be sampled to equivalent depths of the existing VOC sample (10.5 feet).

Although not officially listed under IHSS Group 500-4, IHSS 500-169 (*proposed for no further action [NFA] in 1998*) lies within the borders of IHSS 500-117.2. The HRR reveals that the buried waste drum associated with the "peroxide spill" may not have been buried in this area at all. Another area that is believed to contain the buried waste drum (Potential Area of Concern [PAC] 400-191) was *proposed for NFA in 1997 (DOE 1992-2002)*. In consideration of the potentially buried waste drum at this location, the two statistical sampling locations that fall within the boundaries of IHSS 169 will be sampled to a further depth of 4 feet.

### 3.0 REFERENCES

DOE, 1992-2002, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE, 2000, Rocky Flats Environmental Technology Site Industrial Area Data Summary Report, Golden, Colorado, September.

DOE, 2001, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

**Table 1**  
**IHSS Group 500-4 Sampling Specifications**

<b>IHSS Group</b>	<b>IHSS/PAC/UBC Site</b>	<b>Location Code</b>	<b>Easting</b>	<b>Northing</b>	<b>Media</b>	<b>Depth Interval</b>	<b>Analyte</b>	<b>Onsite Laboratory Method</b>	<b>Offsite Laboratory Method</b>
500-4	IHSS 500-117.2 - Middle Site Chemical Storage	CA39-001A	2082905.5	749357.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA39-001A	2082905.5	749357.7	Surface Soil	0-0.5'	Metals	6200	6010
		CA39-001B	2082905.5	749357.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA39-001B	2082905.5	749357.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-000A	2082933.8	749379.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-000A	2082933.8	749379.9	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-000B	2082933.8	749379.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-000B	2082933.8	749379.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-001A	2082928.8	749415.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-001A	2082928.8	749415.5	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-001B	2082928.8	749415.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-001B	2082928.8	749415.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-002A	2082900.4	749393.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-002A	2082900.4	749393.3	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-002B	2082900.4	749393.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-002B	2082900.4	749393.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CA40-003A	2082923.7	749451.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-003A	2082923.7	749451.2	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-003B	2082923.7	749451.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-003B	2082923.7	749451.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-004A	2082895.4	749429	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-004A	2082895.4	749429	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-004B	2082895.4	749429	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-004B	2082895.4	749429	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-005A	2082918.6	749486.8	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-005A	2082918.6	749486.8	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-005B	2082918.6	749486.8	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-005B	2082918.6	749486.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-006A	2082890.3	749464.6	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-006A	2082890.3	749464.6	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-006B	2082890.3	749464.6	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-006B	2082890.3	749464.6	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-007A	2082913.6	749522.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-007A	2082913.6	749522.5	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-007B	2082913.6	749522.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CA40-007B	2082913.6	749522.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-008A	2082885.2	749500.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-008A	2082885.2	749500.3	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-008B	2082885.2	749500.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-008B	2082885.2	749500.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-009A	2082908.5	749558.1	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-009A	2082908.5	749558.1	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-009B	2082908.5	749558.1	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-009B	2082908.5	749558.1	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA40-010A	2082880.2	749535.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA40-010A	2082880.2	749535.9	Surface Soil	0-0.5'	Metals	6200	6010
		CA40-010B	2082880.2	749535.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA40-010B	2082880.2	749535.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-000A	2083029	749375.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-000A	2083029	749375.2	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-000B	2083029	749375.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-000B	2083029	749375.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-001A	2083023.9	749410.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-001A	2083023.9	749410.9	Surface Soil	0-0.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB40-001B	2083023.9	749410.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-001B	2083023.9	749410.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-002A	2082995.6	749388.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-002A	2082995.6	749388.7	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-002B	2082995.6	749388.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-002B	2082995.6	749388.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-003A	2082967.2	749366.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-003A	2082967.2	749366.5	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-003B	2082967.2	749366.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-003B	2082967.2	749366.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-004A	2083018.8	749446.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-004A	2083018.8	749446.5	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-004B	2083018.8	749446.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-004B	2083018.8	749446.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-005A	2082990.5	749424.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-005A	2082990.5	749424.3	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-005B	2082990.5	749424.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-005B	2082990.5	749424.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-006A	2082962.2	749402.1	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB40-006A	2082962.2	749402.1	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-006B	2082962.2	749402.1	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-006B	2082962.2	749402.1	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-007A	2083042.1	749504.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-007A	2083042.1	749504.4	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-007B	2083042.1	749504.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-007B	2083042.1	749504.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-008A	2083013.8	749482.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-008A	2083013.8	749482.2	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-008B	2083013.8	749482.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-008B	2083013.8	749482.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-009A	2082985.4	749460	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-009A	2082985.4	749460	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-009B	2082985.4	749460	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-009B	2082985.4	749460	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-010A	2082957.1	749437.8	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-010A	2082957.1	749437.8	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-010B	2082957.1	749437.8	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-010B	2082957.1	749437.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB40-011A	2083037.1	749540	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-011A	2083037.1	749540	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-011B	2083037.1	749540	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-011B	2083037.1	749540	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-012A	2083008.7	749517.8	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-012A	2083008.7	749517.8	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-012B	2083008.7	749517.8	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-012B	2083008.7	749517.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-013A	2082980.4	749495.6	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-013A	2082980.4	749495.6	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-013B	2082980.4	749495.6	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-013B	2082980.4	749495.6	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-014A	2082952	749473.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-014A	2082952	749473.4	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-014B	2082952	749473.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-014B	2082952	749473.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-015A	2083003.7	749553.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-015A	2083003.7	749553.4	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-015B	2083003.7	749553.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB40-015B	2083003.7	749553.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-015C	2083003.7	749553.4	Subsurface Soil	2.5'-4.5'	Radionuclides	HPGe	Alpha Spec
		CB40-015C	2083003.7	749553.4	Subsurface Soil	2.5'-4.5'	Metals	6200	6010
		CB40-016A	2082975.3	749531.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-016A	2082975.3	749531.2	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-016B	2082975.3	749531.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-016B	2082975.3	749531.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-016C	2082975.3	749531.2	Subsurface Soil	2.5'-4.5'	Radionuclides	HPGe	Alpha Spec
		CB40-016C	2082975.3	749531.2	Subsurface Soil	2.5'-4.5'	Metals	6200	6010
		CB40-017A	2082947	749509	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-017A	2082947	749509	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-017B	2082947	749509	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-017B	2082947	749509	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB40-018A	2082941.9	749544.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB40-018A	2082941.9	749544.7	Surface Soil	0-0.5'	Metals	6200	6010
		CB40-018B	2082941.9	749544.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB40-018B	2082941.9	749544.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB41-000A	2083032	749575.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-000A	2083032	749575.7	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-000B	2083032	749575.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-000B	2083032	749575.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-003A	2082970.3	749566.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-003A	2082970.3	749566.9	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-003B	2082970.3	749566.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-003B	2082970.3	749566.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-007A	2082936.9	749580.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-007A	2082936.9	749580.3	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-007B	2082936.9	749580.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-007B	2082936.9	749580.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	RCRA Unit 18.03	CA41-000A	2082931.8	749616	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-000A	2082931.8	749616	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-000B	2082931.8	749616	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-000B	2082931.8	749616	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-001A	2082903.5	749593.8	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-001A	2082903.5	749593.8	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-001B	2082903.5	749593.8	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-001B	2082903.5	749593.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CA41-001B	2082903.5	749593.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-002A	2082926.7	749651.6	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-002A	2082926.7	749651.6	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-002B	2082926.7	749651.6	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-002B	2082926.7	749651.6	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-003A	2082898.4	749629.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-003A	2082898.4	749629.4	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-003B	2082898.4	749629.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-003B	2082898.4	749629.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-004A	2082921.7	749687.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-004A	2082921.7	749687.3	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-004B	2082921.7	749687.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-004B	2082921.7	749687.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-005A	2082893.3	749665	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-005A	2082893.3	749665	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-005B	2082893.3	749665	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-005B	2082893.3	749665	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-006A	2082916.6	749722.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-006A	2082916.6	749722.9	Surface Soil	0-0.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CA41-006B	2082916.6	749722.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-006B	2082916.6	749722.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-007A	2082888.3	749700.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-007A	2082888.3	749700.7	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-007B	2082888.3	749700.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-007B	2082888.3	749700.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-008A	2082911.6	749758.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-008A	2082911.6	749758.5	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-008B	2082911.6	749758.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-008B	2082911.6	749758.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-009A	2082883.2	749736.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-009A	2082883.2	749736.3	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-009B	2082883.2	749736.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-009B	2082883.2	749736.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA42-000A	2082934.8	749816.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA42-000A	2082934.8	749816.4	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-000B	2082934.8	749816.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-000B	2082934.8	749816.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA42-001A	2082906.5	749794.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CA42-001A	2082906.5	749794.2	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-001B	2082906.5	749794.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-001B	2082906.5	749794.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA42-002A	2082929.8	749852	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA42-002A	2082929.8	749852	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-002B	2082929.8	749852	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-002B	2082929.8	749852	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA42-003A	2082901.4	749829.8	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA42-003A	2082901.4	749829.8	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-003B	2082901.4	749829.8	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-003B	2082901.4	749829.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA42-004A	2082924.7	749887.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA42-004A	2082924.7	749887.7	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-004B	2082924.7	749887.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-004B	2082924.7	749887.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA42-005A	2082896.4	749865.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA42-005A	2082896.4	749865.5	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-005B	2082896.4	749865.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-005B	2082896.4	749865.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CA42-006A	2082891.3	749901.1	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA42-006A	2082891.3	749901.1	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-006B	2082891.3	749901.1	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-006B	2082891.3	749901.1	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-001A	2083026.9	749611.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-001A	2083026.9	749611.3	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-001B	2083026.9	749611.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-001B	2083026.9	749611.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-002A	2082998.6	749589.1	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-002A	2082998.6	749589.1	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-002B	2082998.6	749589.1	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-002B	2082998.6	749589.1	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-004A	2083021.9	749646.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-004A	2083021.9	749646.9	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-004B	2083021.9	749646.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-004B	2083021.9	749646.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-005A	2082993.5	749624.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-005A	2082993.5	749624.7	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-005B	2082993.5	749624.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB41-005B	2082993.5	749624.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-006A	2082965.2	749602.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-006A	2082965.2	749602.5	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-006B	2082965.2	749602.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-006B	2082965.2	749602.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-008A	2083016.8	749682.6	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-008A	2083016.8	749682.6	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-008B	2083016.8	749682.6	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-008B	2083016.8	749682.6	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-009A	2082988.5	749660.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-009A	2082988.5	749660.4	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-009B	2082988.5	749660.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-009B	2082988.5	749660.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-010A	2082960.1	749638.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-010A	2082960.1	749638.2	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-010B	2082960.1	749638.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-010B	2082960.1	749638.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-011A	2083040.1	749740.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-011A	2083040.1	749740.4	Surface Soil	0-0.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB41-011B	2083040.1	749740.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-011B	2083040.1	749740.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-012A	2083011.7	749718.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-012A	2083011.7	749718.2	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-012B	2083011.7	749718.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-012B	2083011.7	749718.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-013A	2082983.4	749696	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-013A	2082983.4	749696	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-013B	2082983.4	749696	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-013B	2082983.4	749696	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-014A	2082955.1	749673.8	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-014A	2082955.1	749673.8	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-014B	2082955.1	749673.8	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-014B	2082955.1	749673.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-015A	2083006.7	749753.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-015A	2083006.7	749753.9	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-015B	2083006.7	749753.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-015B	2083006.7	749753.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-016A	2082978.3	749731.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB41-016A	2082978.3	749731.7	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-016B	2082978.3	749731.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-016B	2082978.3	749731.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-017A	2082950	749709.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-017A	2082950	749709.5	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-017B	2082950	749709.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-017B	2082950	749709.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB41-018A	2082945	749745.1	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB41-018A	2082945	749745.1	Surface Soil	0-0.5'	Metals	6200	6010
		CB41-018B	2082945	749745.1	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB41-018B	2082945	749745.1	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-000A	2083035	749776.1	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-000A	2083035	749776.1	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-000B	2083035	749776.1	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-000B	2083035	749776.1	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-002A	2083001.6	749789.5	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-002A	2083001.6	749789.5	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-002B	2083001.6	749789.5	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-002B	2083001.6	749789.5	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB42-003A	2082973.3	749767.3	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-003A	2082973.3	749767.3	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-003B	2082973.3	749767.3	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-003B	2082973.3	749767.3	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-006A	2082968.2	749802.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-006A	2082968.2	749802.9	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-006B	2082968.2	749802.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-006B	2082968.2	749802.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-007A	2082939.9	749780.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-007A	2082939.9	749780.7	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-007B	2082939.9	749780.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-007B	2082939.9	749780.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
	RCRA Unit 18.03 / NE corner samples	CB42-001A	2083030	749811.7	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-001A	2083030	749811.7	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-001A	2083030	749811.7	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-001B	2083030	749811.7	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-001B	2083030	749811.7	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-001B	2083030	749811.7	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-001C	2083030	749811.7	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB42-001D	2083030	749811.7	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-001E	2083030	749811.7	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-001F	2083030	749811.7	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-004A	2083024.9	749847.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-004A	2083024.9	749847.4	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-004A	2083024.9	749847.4	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-004B	2083024.9	749847.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-004B	2083024.9	749847.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-004B	2083024.9	749847.4	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-004C	2083024.9	749847.4	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-004D	2083024.9	749847.4	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-004E	2083024.9	749847.4	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-004F	2083024.9	749847.4	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-005A	2082996.6	749825.1	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-005A	2082996.6	749825.1	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-005A	2082996.6	749825.1	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-005B	2082996.6	749825.1	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-005B	2082996.6	749825.1	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-005B	2082996.6	749825.1	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB42-005C	2082996.6	749825.1	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-005D	2082996.6	749825.1	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-005E	2082996.6	749825.1	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-005F	2082996.6	749825.1	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-008A	2083019.8	749883	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-008A	2083019.8	749883	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-008A	2083019.8	749883	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-008B	2083019.8	749883	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-008B	2083019.8	749883	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-008B	2083019.8	749883	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-008C	2083019.8	749883	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-008D	2083019.8	749883	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-008E	2083019.8	749883	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-008F	2083019.8	749883	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-009A	2082991.5	749860.8	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-009A	2082991.5	749860.8	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-009A	2082991.5	749860.8	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-009B	2082991.5	749860.8	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-009B	2082991.5	749860.8	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB42-009B	2082991.5	749860.8	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-009C	2082991.5	749860.8	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-009D	2082991.5	749860.8	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-009E	2082991.5	749860.8	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-009F	2082991.5	749860.8	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-010A	2082963.2	749838.6	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-010A	2082963.2	749838.6	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-010A	2082963.2	749838.6	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-010B	2082963.2	749838.6	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-010B	2082963.2	749838.6	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-010B	2082963.2	749838.6	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-010C	2082963.2	749838.6	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-010D	2082963.2	749838.6	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-010E	2082963.2	749838.6	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-010F	2082963.2	749838.6	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-011A	2082986.4	749896.4	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-011A	2082986.4	749896.4	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-011A	2082986.4	749896.4	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-011B	2082986.4	749896.4	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB42-011B	2082986.4	749896.4	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-011B	2082986.4	749896.4	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-011C	2082986.4	749896.4	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-011D	2082986.4	749896.4	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-011E	2082986.4	749896.4	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-011F	2082986.4	749896.4	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-012A	2082958.1	749874.2	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-012A	2082958.1	749874.2	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-012A	2082958.1	749874.2	Surface Soil	0-0.5'	VOCs	8260	8260
		CB42-012B	2082958.1	749874.2	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-012B	2082958.1	749874.2	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-012B	2082958.1	749874.2	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-012C	2082958.1	749874.2	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-012D	2082958.1	749874.2	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-012E	2082958.1	749874.2	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-012F	2082958.1	749874.2	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
		CB42-013A	2082953	749909.9	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CB42-013A	2082953	749909.9	Surface Soil	0-0.5'	Metals	6200	6010
		CB42-013A	2082953	749909.9	Surface Soil	0-0.5'	VOCs	8260	8260

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CB42-013B	2082953	749909.9	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CB42-013B	2082953	749909.9	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CB42-013B	2082953	749909.9	Subsurface Soil	0.5'-2.5'	VOCs	8260	8260
		CB42-013C	2082953	749909.9	Subsurface Soil	2.5'-4.5'	VOCs	8260	8260
		CB42-013D	2082953	749909.9	Subsurface Soil	4.5'-6.5'	VOCs	8260	8260
		CB42-013E	2082953	749909.9	Subsurface Soil	6.5'-8.5'	VOCs	8260	8260
		CB42-013F	2082953	749909.9	Subsurface Soil	8.5'-10.5'	VOCs	8260	8260
	IHSS 500-117.2 Biased Samples	CA42-028A	2082891.848	749765.145	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA42-028A	2082891.848	749765.145	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-028B	2082891.848	749765.145	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-028B	2082891.848	749765.145	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-045A	2082888.873	749570.772	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-045A	2082888.873	749570.772	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-045B	2082888.873	749570.772	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-045B	2082888.873	749570.772	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA41-046A	2082884.906	749613.415	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec
		CA41-046A	2082884.906	749613.415	Surface Soil	0-0.5'	Metals	6200	6010
		CA41-046B	2082884.906	749613.415	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA41-046B	2082884.906	749613.415	Subsurface Soil	0.5'-2.5'	Metals	6200	6010
		CA42-029A	2082887.881	749805.805	Surface Soil	0-0.5'	Radionuclides	HPGe	Alpha Spec

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Laboratory Method	Offsite Laboratory Method
		CA42-029A	2082887.881	749805.805	Surface Soil	0-0.5'	Metals	6200	6010
		CA42-029B	2082887.881	749805.805	Subsurface Soil	0.5'-2.5'	Radionuclides	HPGe	Alpha Spec
		CA42-029B	2082887.881	749805.805	Subsurface Soil	0.5'-2.5'	Metals	6200	6010

Figure 1

IHSS Group 500-4  
Location Map

Key

Buildings and other  
notable structures

Paved areas

Dirt roads

Streams, ditches,  
or other drainage  
features

IHSS 117.2



200 0 200 Feet

Scale = 5,400

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by:

Prepared for:

**RADMS**  
RADONIC ACTING DESIGN MANAGEMENT SYSTEMS



500-4char2-24-03sps.apr

February 2003

2086000

2085000

2084000

2083000

2082000

2081000

751000

750000

749000

748000

2086000

2085000

2084000

2083000

2082000

2081000

117.2

Figure 2

IHSS Group 500-4  
Existing Surface  
and  
Subsurface Soil  
Sampling Results Greater  
Than Background Means  
Plus Two Standard Deviations  
or MDLs

Key



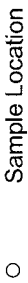
Building

Paved Area

Dirt Road

Streams

IHSS 117.2



Sample Location

Surface Soil  
Sample Location  
Greater than Bg\_2sd



Subsurface Soil  
Sample Location  
Greater than MDL

Note:

Bg\_2sd = Background mean plus  
two standard deviations

Wrww = Wildlife Refuge Worker  
action level

Eco\_al = Ecological action level



70 0 70 Feet

Scale = 1:1,900

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

U.S. Department of Energy  
Rocky Flats Environmental Technology Site

Prepared by:



Prepared for:



KAISER HILL  
COMPANY

500-4char2-24-03sps

ary 2003



Figure 3

Proposed Sampling Locations For  
IHSS Group 500-4

Key

- Buildings
- Paved areas
- Dirt roads
- Streams, ditches, or other drainage features
- IHSS 117.2
- IHSS 169
- Proposed sample location (statistical)
- Proposed sample location (bias)



20 0 20 40 Feet

Scale = 1:750

State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD 27

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Prepared for:

